

Global Explosion-proof Robotic Arm Market Growth 2026-2032

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Abstracts

The global Explosion-proof Robotic Arm market size is predicted to grow from US\$ 223 million in 2025 to US\$ 402 million in 2032; it is expected to grow at a CAGR of 9.1% from 2026 to 2032.

Explosion-proof robotic arms are specialized robotic arms designed for highly hazardous environments such as petroleum, chemical, gas, and military industries, possessing national or international explosion-proof certifications (such as Ex d, Ex ib, ATEX, IECEx). They employ intrinsically safe circuits, explosion-proof housings, spark-free transmissions, and anti-static materials, enabling them to perform tasks such as remote valve operation, sample handling, equipment maintenance, and emergency response, ensuring personnel safety and production continuity. The upstream of the industry chain includes suppliers of explosion-proof servo motors, harmonic reducers, intrinsically safe controllers, special seals, and explosion-proof sensors. The midstream consists of core manufacturers who need to master explosion-proof system integration, multi-degree-of-freedom motion control, and Ex certification capabilities for the entire machine. The downstream primarily serves petrochemical refineries, LNG receiving terminals, hazardous chemical storage facilities, mines, and emergency rescue organizations. Due to high technical barriers, stringent certifications, and small production volumes, the industry's overall gross profit margin ranges from 45% to 70%. In 2024, the global production of explosion-proof robotic arms was approximately 4,750 units, with a global average market price of approximately US\$48,000 per unit. In 2024, the global production capacity of explosion-proof robotic arms was approximately 7,000 units.

United States market for Explosion-proof Robotic Arm is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Explosion-proof Robotic Arm is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Explosion-proof Robotic Arm is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Explosion-proof Robotic Arm players cover elibot, Kawasaki Robotics, Suzhou Saifud Explosion-proof Technology, Guangdong Huayan Robotics Co. Ltd, Changzhou Huiwei Technology Co., Ltd., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Explosion-proof Robotic Arm Industry Forecast" looks at past sales and reviews total world Explosion-proof Robotic Arm sales in 2025, providing a comprehensive analysis by region and market sector of projected Explosion-proof Robotic Arm sales for 2026 through 2032. With Explosion-proof Robotic Arm sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Explosion-proof Robotic Arm industry.

This Insight Report provides a comprehensive analysis of the global Explosion-proof Robotic Arm landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Explosion-proof Robotic Arm portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Explosion-proof Robotic Arm market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Explosion-proof Robotic Arm and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Explosion-proof Robotic Arm.

This report presents a comprehensive overview, market shares, and growth opportunities of Explosion-proof Robotic Arm market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

- Six-Axis Industrial Robotic Arm
- Collaborative Explosion-proof Robotic Arm
- Rail-mounted Robotic Arm
- Telescopic Joint Robotic Arm

Segmentation by Application Task:

- Spraying Robotic Arm
- Material Handling Robotic Arm
- Inspection & Monitoring Robotic Arm
- Welding Robotic Arm

Segmentation by Application:

- Oil & Gas Hazardous Environment Arm
- Chemical Plant Explosion-proof Arm
- Coal Mine & Underground Rescue Arm
- Explosion-proof Painting/Handling Arm

This report also splits the market by region:

- Americas
 - United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

elibot

Kawasaki Robotics

Suzhou Saifud Explosion-proof Technology

Guangdong Huayan Robotics Co. Ltd

Changzhou Huiwei Technology Co., Ltd.

EVS TECH CO., LTD

Huayan Robotics

DUCO

Woob Robotics

KUKA

ABB

Fanuc

AUBO

Key Questions Addressed in this Report

What is the 10-year outlook for the global Explosion-proof Robotic Arm market?

What factors are driving Explosion-proof Robotic Arm market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Explosion-proof Robotic Arm market opportunities vary by end market size?

How does Explosion-proof Robotic Arm break out by Type, by Application?

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